

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-247897

(43)Date of publication of application : 06.09.1994

(51)Int.Cl.

C07C 69/736
A01N 37/10
A01N 37/34
A01N 37/40
C07C 67/31
C07C 69/734
C07C 69/92
C07C253/30
C07C255/54

(21)Application number : 05-038006

(71)Applicant : TEIJIN LTD

(22)Date of filing : 26.02.1993

(72)Inventor : AZUMA SHIZUO
HIRAMATSU TOSHIYUKI

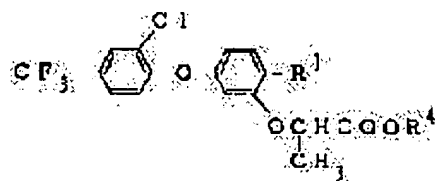
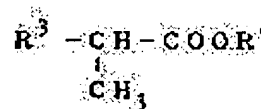
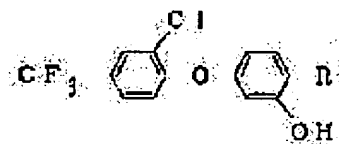
(54) PRODUCTION OF OPTICALLY ACTIVE PHENOXYCARBOXYLIC ACID DERIVATIVE

(57)Abstract:

PURPOSE: To obtain the subject compound useful as an intermediate of a herbicide for broad-leaved weeds and narrow-leaved weeds in high efficiency by reacting a specific phenoxyphenol compound with an optically active carboxylic acid ester in the presence of an acid acceptor in a solvent such as dimethyl sulfoxide.

CONSTITUTION: This optically active carboxylic acid derivative of formula III having excellent herbicidal activity on broad-leaved weeds and narrow-leaved weeds is produced by reacting a substituted phenoxyphenol compound of formula I [R¹ is CHO, CN or COOR² (R² is 1-5C alkyl)] [e.g. 2-hydroxy-4-(2-chloro-4 trifluoromethylphenoxy)benzaldehyde] with an

S-optical isomer of a compound of formula II (R³ is Cl, Br, methanesulfonyloxy or p-toluenesulfonyloxy; R⁴ is 1-5C alkyl) [e.g. (S)-2-chloropropionic acid methyl ester] in the presence of an acid acceptor (e.g. anhydrous potassium carbonate) using dimethyl sulfoxide or N-methylpyrrolidone as a solvent at 80°C for 1.5hr.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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